

SN 10/614,474

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1-126. (Canceled)

127. (new) A conveyor and container lubricant composition comprising:
about 0.05 to about 12 wt-% silicone material; and
about 30 to about 99.95 wt-% water-miscible lubricant.

128. (new) The lubricant composition of claim 127, comprising:
about 0.5 to about 8 wt-% silicone material; and
about 50 to about 90 wt-% water-miscible lubricant; and
further comprising about 2 to about 49.5 wt-% of water or hydrophilic diluent.

129. (new) The lubricant composition of claim 128, comprising:
about 0.8 to about 4 wt-% silicone material; and
about 65 to about 85 wt-% water-miscible lubricant; and
further comprising about 11 to about 34.2 wt-% of water or hydrophilic diluent.

130. (new) The lubricant composition of claim 127, wherein:
the silicone material comprises silicone emulsion, finely divided silicone powder, or
silicone surfactant; and
the water-miscible lubricant comprises a hydroxy-containing compound, polyalkylene
glycol, copolymer of ethylene and propylene oxides, sorbitan ester, or derivative thereof.

131. (new) The lubricant composition of claim 127, wherein:
the silicone material comprises silicone emulsion, finely divided silicone powder, or
silicone surfactant; and

SN 10/614,474

the water-miscible lubricant comprises a phosphate ester, amine, or derivative thereof.

132. (new) The lubricant composition of claim 127, comprising a silicone emulsion.

133. (new) The lubricant composition of claim 132, wherein the mixture is substantially free of surfactants aside from those that may be employed to form the silicone emulsion.

134. (new) The lubricant of claim 127, wherein the silicone material comprises a polymer containing silicone.

135. (new) The lubricant of claim 134, wherein the polymer comprises a polydimethyl siloxane, a polyalkyl siloxane, a polyphenyl siloxane, or a mixture thereof.

136. (new) A method of lubricating a container or conveyor for the container, comprising:

applying to at least a portion of a surface of the container or conveyor a conveyor and container lubricant composition comprising:

a water-miscible silicone material; and
a water-miscible lubricant.

137. (new) A conveyor lubricant composition comprising:
about 0.8 to about 4 wt % oleophilic lubricating material; and
about 30 to about 99.95 wt % of a hydrophilic lubricant material.

138. (new) The composition of claim 137, wherein the hydrophilic lubricant comprises:

up to about 69.95 wt % of a water diluent; and
up to about 85 wt % of a hydrophilic lubricant.

SN 10/614,474

139. (new) The composition of claim 138, comprising an unstable mixture of the oleophilic lubricating material and the hydrophilic lubricating material.

140. (new) The composition of claim 139, wherein when the composition is applied to a surface, the oleophilic lubricating material forms a film on the hydrophilic lubricating material, thereby providing a water-repelling lubricating layer having reduced water sensitivity.

141. (new) The composition of claim 137, comprising about 65 to about 85 wt % of the hydrophilic lubricant; and
further comprising about 11 to about 34.2 wt % of water diluent.

142. (new) The composition of claim 137, wherein the composition is substantially free of surfactants that cause stress cracking in PET.

143. (new) The composition of claim 137, comprising about 0.8 to about 4 wt % of an oleophilic silicone lubricant.

144. (new) The composition of claim 143, wherein:
the oleophilic silicone lubricant comprises a silicone fluid emulsion, finely divided silicone powder, or silicone surfactant; and
the hydrophilic lubricant comprises a hydroxy-containing compound, polyalkylene glycol, copolymer of ethylene and propylene oxides, sorbitan ester, or derivative thereof.

145. (new) The composition of claim 143, wherein the oleophilic silicone lubricant comprises the silicone fluid emulsion; and
the mixture is substantially free of surfactants aside from those employed to form the silicone emulsion.

146. (new) The composition of claim 143, wherein the oleophilic silicone lubricant comprises a polydimethyl siloxane, a polyalkyl siloxane, a polyphenyl siloxane, or a mixture thereof.

SN 10/614,474

147. (new) A method of lubricating a container and a contact surface of a conveyor surface, the method comprising:

applying a lubricant composition to the container, to the contact surface, or to both the container and the contact surface, without diluting a lubricant concentrate;

the lubricant composition comprising an aqueous composition comprising about 0.5 to about 8 wt-% polysiloxane.

148. (new) The method of claim 147, comprising:

spraying the lubricant composition directly onto at least a portion of the contact surface of a moving conveyor.

149. (new) The method of claim 147, comprising:

applying the lubricant composition to a moving conveyor with a mechanical device in direct contact with the conveyor surface.

150. (new) The method of claim 147, wherein the lubricant composition further comprises a fluorinated oil, a fluorinated grease, or a mixture thereof.

151. (new) The method of claim 150, wherein the fluorinated oil comprises a perfluoroalkylpolyether.

152. (new) The method of claim 147, wherein the lubricant composition further comprises a fluorine-containing polymer.

153. (new) The method of claim 152, wherein the fluorine-containing polymer comprises a polytetrafluoroethylene, a fluoroethylene-propylene copolymer, a perfluoroalkoxy resin, an ethylene-chloro-trifluoroethylene alternating copolymer, a poly(vinylidene fluoride), or a mixture thereof.

SN 10/614,474

154. (new) The method of claim 147, wherein the lubricant composition further comprises a fluorosurfactant.
155. (new) The method of claim 147, wherein the lubricant composition further comprises a fluorochemical fluid.
156. (new) The method of claim 147, wherein the lubricant composition is in the form of an emulsion or dispersion of a liquid lubricant in an aqueous phase.
157. (new) The method of claim 147, wherein the lubricant composition further comprises an antimicrobial phenol; an antimicrobial organic or inorganic acid, ester thereof, or salt thereof; an antimicrobial cationic agent; an antimicrobial aldehyde; an antimicrobial dye; an antimicrobial halogen compound; or mixture thereof.
158. (new) The method of claim 147, wherein the lubricant composition further comprises a polyol
159. (new) The method of claim 147, wherein the polyol comprises a glycerol or a glycol.